

September 2020

CITY OF ROCKVILLE
DEPARTMENT OF PUBLIC WORKS (DPW)
111 Maryland Avenue
Rockville, Maryland 20850
240-314-8500

www.rockvillemd.gov

Project Information: Project Name:		
Legal Description: Subdivision:	Lot(s) and Block(s):	Parcel(s):
Property Address:		- 11-11-(0)
Tax Acct. ID(s):		
Engineering Firm:		
Contact Person:		
Phone Number:		
Email Address:		
PDS SFD Permit No.:	(assigned by PDS)	
DPW PWK Permit No.:	(assigned by DPW)	
DPW SMP Permit No.:	(assigned by DPW)	
DPW SCP Permit No.:	(assigned by DPW)	
DPW UTL Permit No.:	(assigned by DPW)	
explained. The engineer must sign this che Submission Acceptance Policy below. Legend: = Complete or Provided, Submission Acceptance Policy: Correctly filling out this checklist will assis APPLICATION SECTION must be provided.	N/A = Not Applicable, INC = Inc st in the acceptance, review and approvided with the initial submission for the rejected. Once forwarded to the Revier B - SUBMISSION REQUIRMENTS.	ny items that are marked INC (incomplete) must be leted in accordance with this guidance and the complete (provide explanation) ral process. All of the items in SECTION A - e City to accept the package and forward it to the ewer, the Reviewer will have one week to review the Failure to include the required items or to explain
Name of Firm Signature of Responsible Person	Date	Person's Name

Title

Initial		Re	Rockville's Review		
Sub	mission	1st	2nd	3rd	
A)	APPLICATION SECTION (Submissions shall be made using the City's Virtual Permit Appavailable at www.rockvillemd.gov)	olication p	ortal		
1 2 3 4	Completed and signed Erosion and Sediment Control Permit (SCP) Application Completed and signed Stormwater Management Permit (SMP) Application	_			
5	One digital (PDF) copy of the proposed plans. Plans must be on 24" x 36" sheets and must utilize the standard City base sheet. Vector-Based PDF files are required for all plans, calculations, reports and other supporting documentation. It is recommended that drawings created in AutoCAD are converted to Vector-Based PDF by using the Autodesk Vector Graphic Converter "DWG to PDF.pc3 plotter driver."				
B)	SUBMISSION REQUIREMENTS Transmittal explaining purpose of the submission including explanation of any unusual circumstances				
2	 One digital (PDF) copy of the proposed plan set including: the Public Improvement Plan (Section D below) the Erosion and Sediment Control Plan (Section E below) the Stormwater Management Plan (Section F below), Drainage Area Maps and Overbank Flood Protection Calculations (Section G below) and Stormwater Management Report (Section H below) 				
3	One digital (PDF) copy of construction easement documents (if necessary) and Declaration of Covenants for Stormwater Management [second submission]. Documents must be recorded prior to permit issuance. Utilize the City's template and sample exhibit for Declaration of SWM Covenants - available at: www.rockvillemd.gov/2147/Trees-Environment				
4	Bond estimates for erosion and sediment control, stormwater management, and work within the right-of-way. Estimates shall use City Standard Prices for Cost Estimating as may be updated - available at: www.rockvillemd.gov/286/Streets-Driveway-Right-of-Way				
5	Documentation that plans have been sent to utility companies (PEPCO, Verizon, Washington Gas, Comcast, etc.) for coordination				
C)	BASE SHEET				
1_	Scale 1" = 30' or larger with Legend, North arrow and Datum (NAD 83/91, NGVD 88) unless otherwise approved. Provide two benchmarks with location, elevation and description. Provide two graticular tick marks per plan view sheet for georeferencing				
2 3 4 5	Name, address, telephone number, email of firm or individual that prepared plan Name, address, telephone number, email of Owner/Applicant on first sheet				

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C) B A	ASE SHEET (continued) Number sheets consecutively and provide match lines if needed				
7 8	Miss Utility Note on first sheet				
9					
11	Existing easements shown and labeled with limits, use and Liber/Folio or plat reference. Include P.U.E.s. Any proposed easements will require submittal of a separate plat and/or metes and bounds description for approval				
12	Existing topography and proposed grading at minimum two (2) foot contour interval with spot elevations to support existing drainage patterns and at all four corners of the proposed building(s)				
13	Location of the following environmental features (as depicted on the NRI/FSD, if applicable): Significant trees, street trees, ephemeral, perennial and intermittent streams, with associated stream valley buffers, 100 year floodplain with 25 foot building restriction line, wetlands, wetlands buffers, park buffers, soils, hydric soils, seeps, springs, steep slopes and highly erodible soils				
14	Identify individual trees with a Diameter Breast Height (DBH) of six inches or greater on-site within 20 feet of the Limits of Disturbance and individual trees with a DBH of 12 inches or greater off-site within 10 feet of the property line				
15	Existing features within the project limits (buildings, paving, curb and gutter, sidewalk, etc.) shown and labeled to remain, to be removed, to be abandoned, to be relocated, etc. Layers to be lighter or screened for clarity				
16	Overhead utilities including utility poles, streetlights, traffic signal poles and equipment. Underground utilities including location, type, material and sizes. Crossings with existing utilities will require test pits to verify horizontal and vertical information				
17	All proposed work and features shown clearly with adequate construction details, including curbs and gutters, paving and sidewalks				
18 19 20	_ Limits of Disturbance (LOD) delineated and labeled				
D) PU	JBLIC IMPROVEMENT PLAN				
1	City of Rockville General Notes and Water and Sewer Notes (available at www.rockvillemd.gov)				
2	All aspects of water and sewer designed in accordance with WSSC and all other aspects of public infrastructure designed in accordance with City of Rockville, Montgomery County, or MDSHA standards, specifications and details unless otherwise indicated or directed				
3	All crossings with existing utilities will require test pits to confirm adequate clearance prior to plan approval, unless otherwise allowed by DPW				
4	Existing and proposed dry utility connections (cable, electric, gas, telephone, etc.). Plans must be submitted to affected utility companies for coordination				
5	Existing and proposed water and sewer house connections including locations and				

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D)	PUBLIC IMPROVEMENT PLAN (continued)			
6_	Existing sanitary sewer manholes immediately upstream and downstream of the proposed sewer house connections with field verified invert elevations			
7	All abandonments of existing water and sewer connections to be labeled on the plans. Abandonments shall be in accordance with City policy and standard practice as detailed in the standard notes			
	WSSC approval in Commission service areas Driveway entrance details onto roadways including reference to City of Rockville standard details, etc.			
10_	Proper tie in or transition to existing features (field verify existing)			
11 _	Limits of street repair (Pipe Trench Detail 60, milling and overlay, etc.)			
	Location and details of proposed fencing and accessory structures			
13 _	Add note to all sheets: This Plan Is For Public Improvements Only			
E)	SEDIMENT CONTROL PLAN			
. ′	City of Rockville Erosion and Sediment Control Notes and Geotechnical Notes (available at www.rockvillemd.gov) and Maryland Department of the Environment (MDE) Topsoiling Notes			
2	City of Rockville Design and Quantities Certification and Owner/Developer Certification. Plan revisions that increase the disturbed area must include a revised Design and Quantities Certification and revised Application			
3	MDE standard details for all ESC measures to be used with dimensions, elevations, sizes and/or materials shown where required. If modifications are proposed, label the measures and include a modified detail			
4	All sediment control measures labeled to match details and legend. Note types and/or size if applicable			
5_	Existing and proposed drainage divides shown. Label offsite drainage area amounts (acres) that are conveyed onsite			
6_	Existing and proposed trees/tree lines. Identify trees to be removed and add a symbol to the legend			
7_	USDA Soil Types and Hydrologic Soil Groups delineated and labeled			
8	Location of On-site Concrete Washout Structure labeled and detail provided			
	Proposed 2:1 or 3:1 slopes labeled. 2:1 slopes require DPW permission			
10_	LOD must incorporate realistic and sufficient area for operation of equipment for all construction activities including construction and removal of sediment control measures			
11_	Protection of properties adjacent to any on-site disturbance and/or excavation must be incorporated into the design			
12_	Letters of permission shown on plan or recorded grading easement submitted prior to plan approval for any off-site disturbance			
13_	Diversion of off-site runoff must, at a minimum, incorporate an A-2 conveyance channel			
14_	Areas to be dewatered shall be directed to an approved filtering device and stable discharge area (provide detail)			
15 _	Temporary storm drain diversion must include: a profile with inverts, slopes, pipe material, and length; and temporary connections to other pipes or structures, if applicable			

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E) 16 _	Sequence of Construction on first sheet if possible. Refer to City's Standard Wording for Inintial Steps of Sequence of Construction for Private Development Projects. Sequence must include a preconstruction meeting with the City's Sediment Control Inspector, Construction Management Project Inspector and Forestry Inspector with a minimum of 48 hours notice. Include a note that all other agencies issuing permits must be present at the preconstruction meeting. Include a note that the LOD must be marked in the field PRIOR to the preconstruction meeting. Detail all measures that must be relocated, adjusted, removed or incorporated as construction progresses. Include major components of construction such as sediment control installation, clearing and grubbing, grading, utility construction, temporary diversions, curb and gutter and paving, building construction, SWM construction, stabilization and sediment control removal. Note if any construction must occur in a certain order or must be delayed. Sediment control must be provided during the entire construction operation. Measures to be relocated, adjusted or removed must be clearly shown and explained in the Sequence of Construction			
F) 1	STORMWATER MANAGEMENT PLAN All aspects of stormwater management designed in accordance with City of Rockville, Montgomery County, or MDE standards, specifications and details unless otherwise indicated or directed			
2_	Proposed grading and spot elevations to support drainage areas to each SWM measure and conveyance of runoff within and away from the site			
3				
4	Type, location, identifying label (i.e. SWM -1) and size (if applicable) of each SWM measure proposed to be part of the Stormwater Management System			
5	Drainage areas to each SWM measure delineated and drainage areas labeled in acres. The information for the labeled areas must match the SWM System Summary Table and the information provided in the SWM Concept Report			
6_	Sufficient information to support the vertical aspects of the SWM System. This may include existing and proposed inverts at critical locations and/or schematic profiles based on field verified information			
7	Table of estimates for Total Area, Disturbed Area, new Impervious Area, replacement Impervious Area, and total Impervious Area for the Site and the Rights-of-Way separately			
8	SWM System Summary Table - Organized by drainage area, study point, and/or SWM measure, as applicable. At a minimum, the drainage area (ac), impervious area (ac), type of measure, the target, required and provided ESDv, PE, WQv, Rev, Cpv, and Qp10 as applicable shall be included in the table. A comments column can be added if it assists in explaining what is being proposed			
9_	Landscaping details including a list of plant species, sizes, planting details, quantities and their locations to be used for stormwater management			
10 _ 11 _	Construction inspection check-off table for each stormwater management system			

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G)	DRAINAGE AREA MAPS AND OVERBANK FLOOD PROTECTION CALCULATION (Items may be included with the Stormwater Management Plans)	IONS		
1_	Scale of map and topography shall be of sufficient level of detail to support the Engineer's analysis. Minimum scale shall be 1" = 30'. Minimum existing topography shall be 2-foot contours			
2	Soil delineation from USDA soil surveys, include identification of unsuitable soils as applicable			
3 _	Location of soil typing samples (for ESD practices, infiltration, bioretention, etc.) Information, including the sample number or designation (i.e. test pit TP-1) must match the Stormwater Report (Section H below)			
4 _	Pre- and post-development drainage area boundaries to each measure. Include off- site areas draining into the property if applicable. SWM for off-site areas must be provided when required by Ordinance or State Law			
5	Pre- and post-development runoff computations including time of concentration, rainfall intensities, c factors and peak discharge for 2 and 10-year design storms			
6_	Upstream Areas and Conveyance - The map must illustrate upstream areas draining into the site including areas (ac), and drainage divides and must include information regarding the upstream conveyance system(s) i.e. overland flow, schematic pipe locations and sizes, existing channels and other drainage ways. This information must be of sufficient detail to illustrate the off-site areas that drain to the site and how the conveyance occurs			
7 _	Downstream Conveyance - The map must illustrate how runoff will leave the site including information regarding the downstream conveyance system(s) such as schematic pipe location and sizes, existing channels and other drainage ways. The limits of the downstream conveyance must be shown to the property line at a minimum			
H) 1	SWM CONCEPT REPORT (Items may be included on the Stormwater Management Plans) A narrative to include the following sections:			
2_	An Overview Section which includes important information about the project including the size of the property (ac), existing features found on the site, zoning, proposed development, impervious area proposed to be created (ac), a statement about whether the site qualifies as a "redevelopment" according to Chapter 19 with sufficient information to support the findings, the soil found on the site, the watershed the site is located in and the location of any upstream or downstream ponds that may pose a dam breach hazard			
3 _	A <u>Proposed SWM Section</u> explaining how stormwater measures, consistent with the City's SWM requirements and the MDE Manual, will be provided for the project. This must include a narrative and computations as described below.			

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H) SW	M CONCEPT REPORT (continued)			
1	A narrative that supports the Concept and the use of SWM as prioritized in Section 19-51 of Chapter 19 and explains:			
5	 How the Concept incorporates the protection and enhancement of natural resources 			
5 7	 How efforts have been made to maintain existing drainage areas and The ESD techniques, for instance better site planning, minimization of impervious surfaces, slowing down of runoff, and the use of nonstructural and approved innovative technologies that have been contemplated and why they have been selected. Provide an explanation of which measures were considered and rejected and why (can be a narrative, table, etc.). This information will assist in DPW's determination of whether the design incorporates ESD to the Maximum Extent Practicable (MEP) 			
3	 How infiltration areas have been protected from compaction and sediment Integration of erosion and sediment controls into the stormwater system/strategy 			
10	Computation Section - All computations as required to support the use of ESDs to the MEP, structural measures and/or alternatives (such as a monetary contribution in lieu of on-site managed) must be included in the report. Supporting computations shall utilize TR-55 and the MDE Manual, including Chapter 5, as applicable and as may be supplemented by future documents			
11	SWM System Summary Tables as described in Section F above			
12	If requesting use of SWM alternatives, the report shall include descriptions of the proposed alternatives and written justification for the alternative that addresses the requirement of the Stormwater Management Regulations. Describe and document all site constraints that restrict providing full SWM controls			
13	If proposing a SWM monetary contribution, a plan indicating sub-drainage area affected and a table listing the impervious acreage for each area and what type of alternative is proposed (i.e., contribution for components of WQv, Cpv and/or Qp10). Monetary Contribution requests for right-of-way areas must be broken out and reported separately from request for on-site areas			
14	Sizing calculations for stormwater treatment practices including contributing drainage area, storage, and outlet configuration			
15	Seal, signature, and license number of a MD Professional Engineer, Architect or Surveyor on the cover of the report			
СОММ	ENTS:			
COMM	Surveyor on the cover of the report			